

CLAIMS

1. A reamer guide for reaming a cavity within a tibia, the reamer guide comprising:
a plate having a circular aperture there through and defining a plane; and
5 a disc rotatably mounted in the aperture, the disc having a bushing therein
defining a reamer axis offset from the centre of the disc for receiving a reamer in use and
in which the disc is rotatable about an axis transverse to the plane of the plate.
2. A reamer guide as claimed in claim 1, wherein the plate further includes at least
10 one mounting hole.
3. A reamer guide as claimed in claim 1 or 2, in which the plate further comprising
an inner circular edge having a first formation therein, and wherein the periphery of the
disc has a matching formation which engages with the first formation to retain the disc
15 within the aperture.
4. A reamer guide as claimed in claim 3, in which the circular formation is a
shoulder and the matching formation is a flange.
- 20 5. A reamer guide as claimed in any one of the preceding claims, wherein the
reamer axis is angled toward the axis of rotation of the disc.
6. A reamer guide as claimed in any preceding claim, the bushing including a stop
toward a free end for limiting the travel of a reamer into the bushing.
- 25 7. An assembly including:
a reamer guide according to any of claims 1 to 6; and
a reamer sized to substantially match the inner diameter of the busing.
- 30 8. An assembly as claimed in claim 7, wherein the reamer further includes a
projection sized to engage with an edge of a free end of the bushing, the projection

positioned a distance from a distal end of the reamer to control the depth of the cavity to be formed to correspond to a desired depth.

9. An assembly as claimed in claim 7 or 8, further comprising a universal joint
5 attached to a proximal end of the reamer for transmitting torque to the reamer about the axis between the distal and proximal ends.

10. An assembly as claimed in any one of claims 7 to 9, further comprising a drive mechanism attached to the universal joint for rotating the reamer.

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11. A method of reaming a cavity within a tibia, the method comprising:
resecting a surface of the tibia in which the cavity is to be reamed;
locating a reamer guide on the resected surface, the reamer guide having a
rotating disc with a bushing offset from the centre of rotation of the disc, such that the
15 centre of the disc is located above the desired centre of the cavity;
attaching a drive mechanism to a reamer, the drive mechanism extending at least partially at an acute angle to the longitudinal axis of the reamer;
reaming the tibia through the bushing with the reamer; and
rotating the disc while still driving the reamer, thereby enlarging the cavity.

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12. The method of claim 11, wherein reaming through the bushing includes reaming to a predetermined depth before rotating the disc.

13. A method as claimed in claim 11 or 12, further comprising securing the reamer
25 guide on the resected surface before beginning reaming.

14. A reamer guide substantially as hereinbefore described with reference to the accompanying drawings.

30 15. An assembly of a reamer guide and a reamer substantially as hereinbefore described with reference to the accompanying drawings.